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APPLICATION NO	. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/847,885	•	05/02/2001	Robert Nakayama	18564-005910	5809
22428	7590	03/13/2006		EXAMINER	
		DNER LLP	TALBOT, BRIAN K		
SUITE 500 3000 K ST				ART UNIT	PAPER NUMBER
WASHING	TON, DC	20007		1762	

DATE MAILED: 03/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u> </u>	_
	Application No.	Applicant(s)	_
Office Assistant Communication	09/847,885	NAKAYAMA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Brian K. Talbot	1762	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period value to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a rep will apply and will expire SIX (6) MONTH, cause the application to become ABAI	ATION. ly be timely filed AS from the mailing date of this communication. NDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 8/5/0	5 (RCE).		
	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matter	s, prosecution as to the merits is	
closed in accordance with the practice under E	x parte Quayle, 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-22</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers		•	
9)⊠ The specification is objected to by the Examine	r.		
10) The drawing(s) filed on is/are: a) acce	epted or b) objected to by	the Examiner.	
Applicant may not request that any objection to the	<u>-</u>	• •	
Replacement drawing sheet(s) including the correct		•	
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached (Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119		•	
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 1	19(a)-(d) or (f).	
1. Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents	s have been received in App	olication No	
Copies of the certified copies of the prior	ity documents have been re	ceived in this National Stage	
application from the International Bureau	, ,,,		
* See the attached detailed Office action for a list of	of the certified copies not re	ceived.	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		nmary (PTO-413) Mail Date	
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		rmal Patent Application (PTO-152)	

Application/Control Number: 09/847,885 Page 2

Art Unit: 1762

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in

37 CFR 1.17(e), was filed in this application after final rejection. Since this application is

eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e)

has been timely paid, the finality of the previous Office action has been withdrawn pursuant to

37 CFR 1.114. Applicant's submission filed on 8/5/05 has been entered.

2. Claims 1-22 remain in the application.

3. The text of those sections of Title 35, U.S. Code not included in this action can be found

in a prior Office action.

Specification

4. The disclosure is objected to because of the following informalities:

On pg. 8, the reference to US Ser. No. 09/201,999 should be updated to include that the

application is now abandoned.

Appropriate correction is required.

Application/Control Number: 09/847,885

Art Unit: 1762

Claim Rejections - 35 USC § 112

Page 3

5. Claims 1-22 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for a non-conducting or insulating polymer film that absorbs the chemical analyte so as to be sensed by the sensing film, does not reasonably provide enablement for coating any insulating layer which does not absorb the analyte because this would not allow the analyte to reach the sensing film and therefore be "sensed" or detected. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention commensurate in scope with these claims.

Claim Rejections - 35 USC § 103

6. Claims 1-6,9,1- and 13-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis et al. (5,571,401) or Lewis et al. (6,290,911) in combination with Yamagishi et al. (5,756,879), Pace (4,454,007) or Kuroiwa et al. (5,296,819) or Hamamoto et al. (5,720,862) or Yamamoto et al. (5,658,443).

Lewis et al. (5,571,401) or Lewis et al. (6,290,911) both teach sensor arrays for detecting analyte fluids. A sensing material comprising conducting and non-conducting material is blended to form the desired sensor. The sensing material is applied over a substrate having gold electrical contacts. The sensing material absorbs the detected material thereby providing a detectable response. The conductive material includes carbon black and the non-conducting polymers include a wide variety and can be applied by a variety of deposition processes

Art Unit: 1762

including spraying and dipping. Arrays of sensors can be manufactured by these processes. The sensing material is applied by a variety of processes including spraying (abstract and col. 5, line 1 - col. 10, line 60).

Lewis et al. (5,571,401) or Lewis et al. (6,290,911) fail to teach coating a first conductive layer and then a non-conductive layer instead of a blended composition.

Yamagishi et al. (5,756,879), Pace (4,454,007) or Kuroiwa et al. (5,296,819) all teach sensors whereby conductive electrodes are covered and connected by a conductive material. The sensors can be tailored to detect a variety of compound by altering the conductive material. Theses references teach coating layers over the contact to form the sensors.

Hamamoto et al. (5,720,862) or Yamamoto et al. (5,658,443) both teach multilayered sensors having cover layers atop the sensing layer (Figure 1 in both references). Hamamoto et al. (5,720,862) further teaches apertures in the top cover layer to allow the sample applied atop the cover layer to pass and penetrate toward the reactive layer and the electrode system. The layers are applied and dried (col. 8, lines 5-55). Yamamoto et al. (5,658,443) further teaches that the top layer (8) allows infusion of the sample solution from the surface into the reaction layer. The layers are applied and dried. (col. 6, line 35 - col. 7, line 20).

Therefore it would have been obvious for one skilled in the art at the time the invention was made to have modified Lewis et al. (5,571,401) or Lewis et al. (6,290,911) sensor manufacturing process by coating individual layers as evidenced by Yamagishi et al. (5,756,879), Pace (4,454,007) or Kuroiwa et al. (5,296,819) or Hamamoto et al. (5,720,862) or Yamamoto et al. (5,658,443) with the expectation of achieving the desired results.

Art Unit: 1762

With respect to claims 9 and 10 which recite the use of a robotic amateur. It has been well settled that the provision of mechanical or automated means to replace manual activity is held to have been an obvious modification of the art. *In re Venner 120 USPO 192*

Claims 7,8,11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lewis et al. (5,571,401) or Lewis et al. (6,290,911) in combination with Yamagishi et al. (5,756,879), Pace (4,454,007) or Kuroiwa et al. (5,296,819) or Hamamoto et al. (5,720,862) or Yamamoto et al. (5,658,443) further in combination with De Witt et al. (6,572,826).

Features described above concerning Lewis et al. (5,571,401) or Lewis et al. (6,290,911) in combination with Yamagishi et al. (5,756,879), Pace (4,454,007) or Kuroiwa et al. (5,296,819) or Hamamoto et al. (5,720,862) or Yamamoto et al. (5,658,443) are incorporated here.

Lewis et al. (5,571,401) or Lewis et al. (6,290,911) in combination with Yamagishi et al. (5,756,879), Pace (4,454,007) or Kuroiwa et al. (5,296,819) or Hamamoto et al. (5,720,862) or Yamamoto et al. (5,658,443) fails to teach using a mask to apply the films.

De Witt et al. (6,572,826) teaches a chemically sensitive sensor whereby the sensing material can be applied by spraying with the use of a mask to applying the coating to specific areas of the substrate (col. 8, lines 25-40).

Therefore it would have been obvious for one skilled in the art at the time the invention was made to have modified Lewis et al. (5,571,401) or Lewis et al. (6,290,911) in combination with Yamagishi et al. (5,756,879), Pace (4,454,007) or Kuroiwa et al. (5,296,819) or Hamamoto et al. (5,720,862) or Yamamoto et al. (5,658,443)multi-layered sensor by applying the layers

Application/Control Number: 09/847,885

Art Unit: 1762

with a masking means as evidenced by De Witt et al.(6,572,826) with the expectation of

achieving a more precise and accurate deposition pattern.

7. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Brian K. Talbot whose telephone number is (571) 272-1428. The

examiner can normally be reached on Monday-Friday 6AM-3PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Timothy H. Meeks can be reached on (571) 272-1423. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BATABET 3/3/06

Primary Examiner

Page 6

Art Unit 1762

BKT